

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 December 2003 (24.12.2003)

PCT

(10) International Publication Number
WO 2003/107342 A3

(51) International Patent Classification⁷: **G11B 20/00**

(21) International Application Number:
PCT/IB2003/002574

(22) International Filing Date: 11 June 2003 (11.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02077406.3 18 June 2002 (18.06.2002) EP

(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL];
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **LINNARTZ, Johan, P., M., G.** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agent: **GROENENDAAL, Antonius, W., M.**; Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

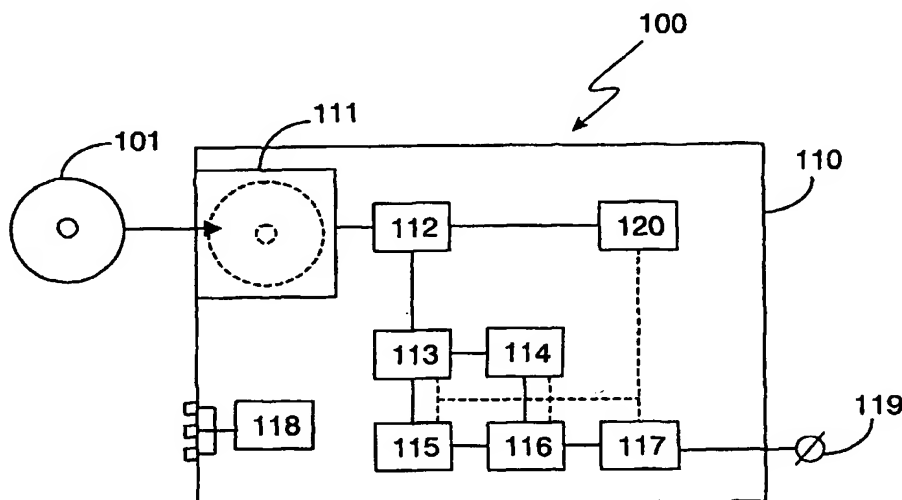
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: **SYSTEM FOR SECURE STORAGE**



(57) Abstract: A system (100) comprising read means (112) for reading content data and control logic data from a storage medium (101), the control logic data being uniquely linked to the storage medium (101), processing means (113-117), for processing the content data and feeding the processed content data to an output, and control means (120) for executing the control logic data and for controlling the processing means (113-117) in accordance with the control logic data being executed. The link is preferably realized by variations in a physical parameter of the storage medium (101) that exhibit a modulation pattern representing a necessary parameter for obtaining access to the control logic data. Alternatively, the link is realized by an integrated circuit (201) on the storage medium (101) which contains the necessary parameter. The necessary parameter may comprise a decryption key or authentication data.

WO 2003/107342 A3



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:
5 February 2004

INTERNATIONAL SEARCH REPORT

Internatl Application No
PCT/IB 02574

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11B20/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 21085 A (KONINKL PHILIPS ELECTRONICS NV) 13 April 2000 (2000-04-13) page 1, line 5 - line 8 page 2, line 26 - page 3, line 6 page 4, line 24 - line 31 page 7, line 29 - page 8, line 12 page 9, line 24 - line 26	1-4,7,9, 10
Y		5,6,8
Y	US 5 905 798 A (EDENSON ROY I ET AL) 18 May 1999 (1999-05-18) abstract column 2, line 14 - line 17 column 2, line 35 - line 43 column 3, line 8 - line 18 column 3, line 29 - line 35	5,6,8
A		1,7
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

28 November 2003

Date of mailing of the international search report

15/12/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Fantini, F

INTERNATIONAL SEARCH REPORT

 Internat. Application No
 PCT/IB 02574

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 031 815 A (HEEMSKERK JACOBUS P J) 29 February 2000 (2000-02-29) abstract column 2, line 22 - line 31 column 2, line 61 - column 3, line 20 column 4, line 62 - column 5, line 43 column 6, line 9 - line 17	1-4,7-10
A	column 7, line 60 - column 8, line 33 -----	5,6,8
A	US 6 209 092 B1 (LINNARTZ JOHAN P M G) 27 March 2001 (2001-03-27) column 1, line 12 - line 18 column 1, line 36 - line 41 column 3, line 53 - line 58 column 4, line 60 - column 5, line 2 column 5, line 41 - column 6, line 25 column 11, line 49 - line 56 -----	
A	B. J. VAN RIJNSOEVER, J. P. LINNARTZ: "Interoperable content protection for digital TV" ICME 2000, 'Online! vol. 3, 30 July 2000 (2000-07-30), - 2 August 2000 (2000-08-02) pages 1407-1410, XP002263251 Retrieved from the Internet: <URL:http://search.ieeeexplore.ieee.org> 'retrieved on 2003-11-20! the whole document -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern: cation No

PCT/IB 02574

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0021085	A	13-04-2000	AU 6082799 A BR 9907778 A CN 1290395 T EG 22467 A WO 0021085 A1 EP 1046163 A1 HU 0100222 A2 JP 2002527847 T PL 340923 A1 TR 200002369 T1 TW 452766 B US 6580682 B1 US 2003185130 A1 ZA 200002773 A	26-04-2000 10-10-2000 04-04-2001 26-02-2003 13-04-2000 25-10-2000 28-05-2001 27-08-2002 12-03-2001 22-01-2001 01-09-2001 17-06-2003 02-10-2003 04-06-2001
US 5905798	A	18-05-1999	DE 69711755 D1 DE 69711755 T2 EP 0809245 A2 JP 10075198 A	16-05-2002 14-11-2002 26-11-1997 17-03-1998
US 6031815	A	29-02-2000	CN 1198828 A EP 0846321 A1 HU 9802490 A2 WO 9750081 A1 JP 11513165 T	11-11-1998 10-06-1998 01-02-1999 31-12-1997 09-11-1999
US 6209092	B1	27-03-2001	AT 224124 T AU 5337598 A AU 5493398 A CN 1220756 A CN 1220756 T CN 1220805 A CN 1220805 T DE 69807807 D1 DE 69807807 T2 EP 0902946 A2 EP 0906700 A2 WO 9833176 A2 WO 9833325 A2 JP 2000508813 T JP 2000509588 T TW 399191 B TW 428163 B	15-09-2002 18-08-1998 18-08-1998 23-06-1999 23-06-1999 23-06-1999 23-06-1999 17-10-2002 28-05-2003 24-03-1999 07-04-1999 30-07-1998 30-07-1998 11-07-2000 25-07-2000 21-07-2000 01-04-2001

BEST AVAILABLE COPY